


CRACKING
THE CASE WITH

FLEXBOX





Level 4 – Section 1

Sizing Up the Properties

New Properties for Space-based Size

Examples, Sized With Flex Properties

Stay In the Know

Sign up below to receive updates when new clues are added.





Email

Grow to use available width

Stay In the Know

Sign up below to receive updates when new clues are added.

Email

	<h4>Brown necktie</h4> <p>The neutral tones help its owner blend in with any background — especially the faded wallpaper in the aging haunted house.</p>		<h4>Tobacco Pipe</h4> <p>The musty smell of old tobacco wafts from this vintage pipe — which wasn't actually vintage when the owner purchased it new.</p>
	<h4>Gold Pocket Watch</h4> <p>The telltale ticking of this pocket watch echoes throughout the halls of the haunted house, bouncing off sheet-covered furniture... or ghosts.</p>		<h4>Cane</h4> <p>There's a dusting of hard-candy sugar along this solid-oak cane, which is ideal for enthusiastic pointing while lecturing whippersnappers.</p>

Defined widths for items

(Mostly) Default Behavior

index.html

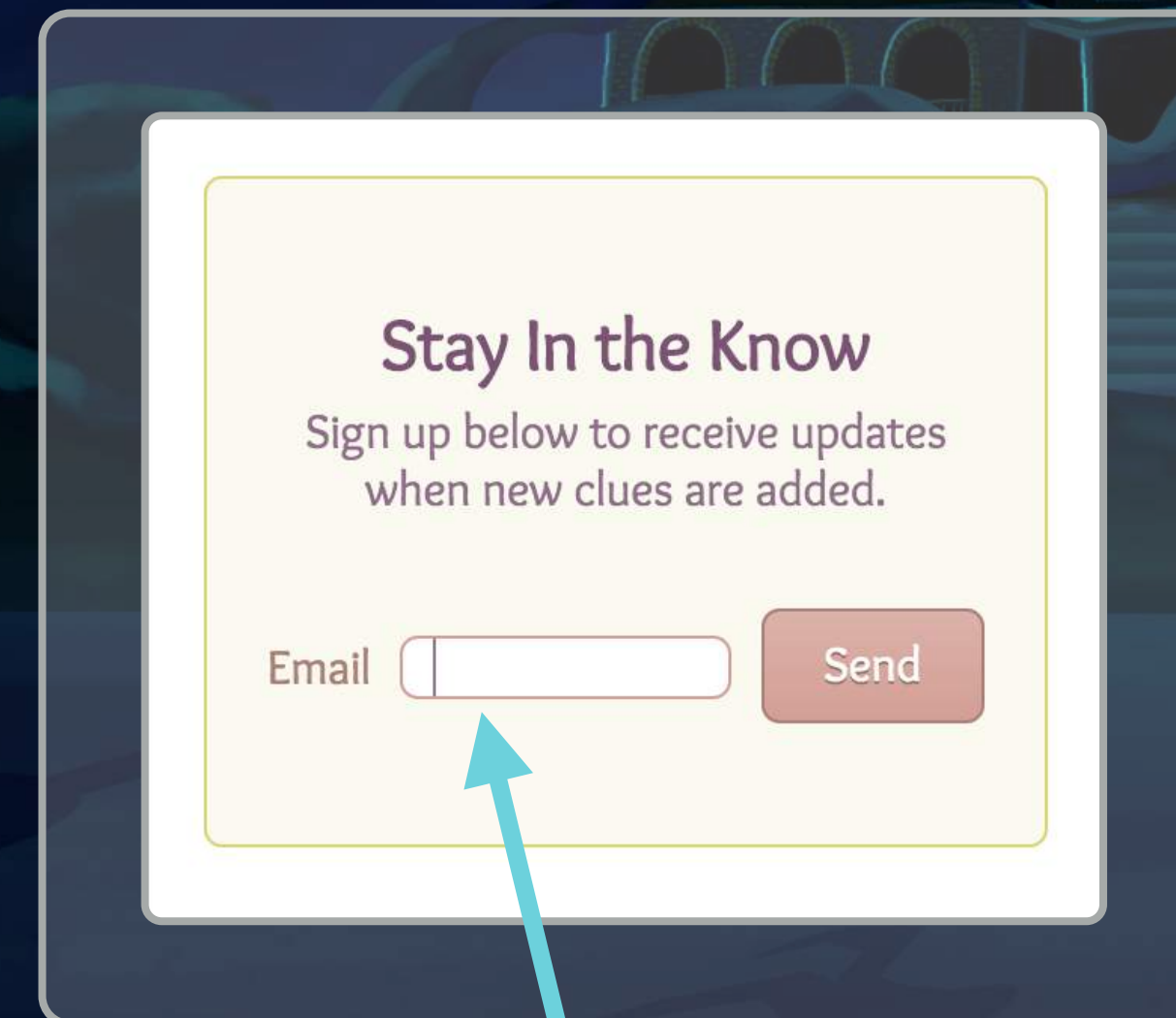
HTML

```
<div ...>
  <label ...>...</label>
  <input class="add-input">
  <button ...>...</button>
</div>
```

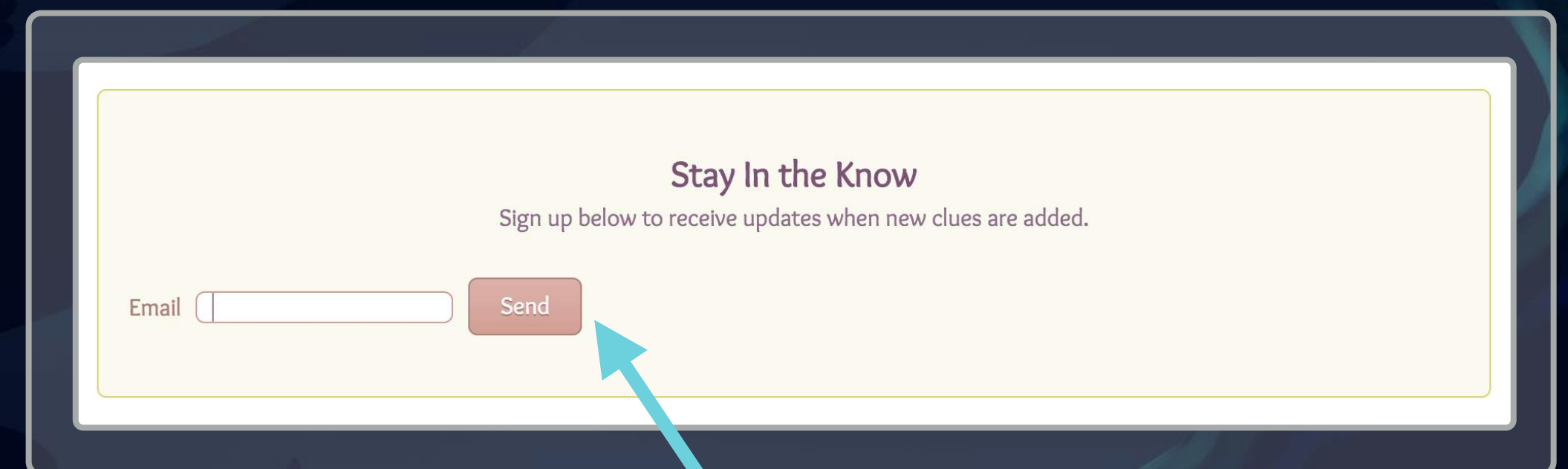
site.css

CSS

```
...
.add-input {
  align-items: center;
  display: flex;
  min-width: 0; }
```



Set min-width to 0



Fills content space

flex-grow

Used to specify the ratio of the space an item should fill in the main axis. It accepts numbers and the default is 0.

index.html

HTML

```
<div ...>
  <label class="add-label">...
  <input class="add-input">
  <button class="add-button">...
</div>
```

site.css

CSS

```
...
.add-label,
.add-input,
.add-button {
  flex-grow: 0; }
```

*Items don't grow
beyond content size*

The diagram shows a form layout within a container. The container has a dashed green line at the top with a green arrow pointing right, indicating the main axis. On the left side of the container, there is a red dot and a dashed red line with a red arrow pointing down, indicating the cross-axis. The form itself is a white box with a yellow border. Inside the form, the text "Stay In the Know" is centered at the top, followed by the text "Sign up below to receive updates when new clues are added." Below this text, there is an "Email" label, a text input field, and a "Send" button. A blue arrow points from the text "Items don't grow beyond content size" to the input field, illustrating that the input field's size is determined by its content and does not grow to fill the remaining space in the container.

Using flex-grow for a Single Item

Assigning a value of 1 makes an item fill as much space as possible.

index.html

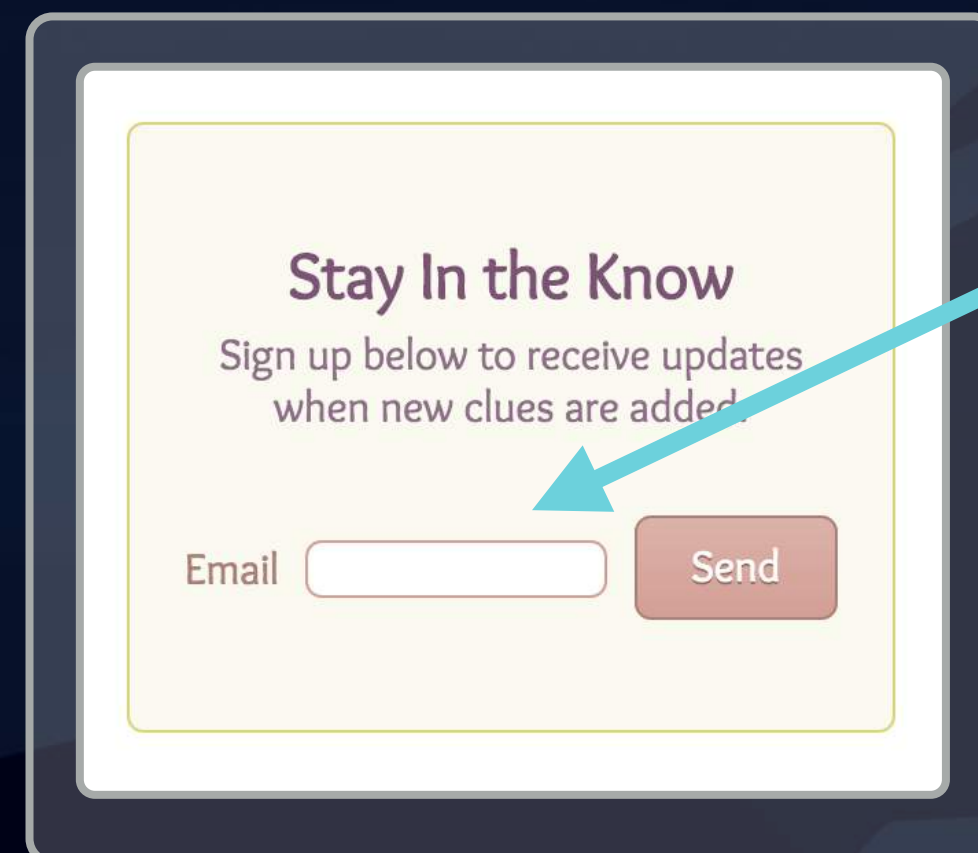
HTML

```
<div ...>
  <label ...>...</label>
  <input class="add-input">
  <button ...>...</button>
</div>
```

site.css

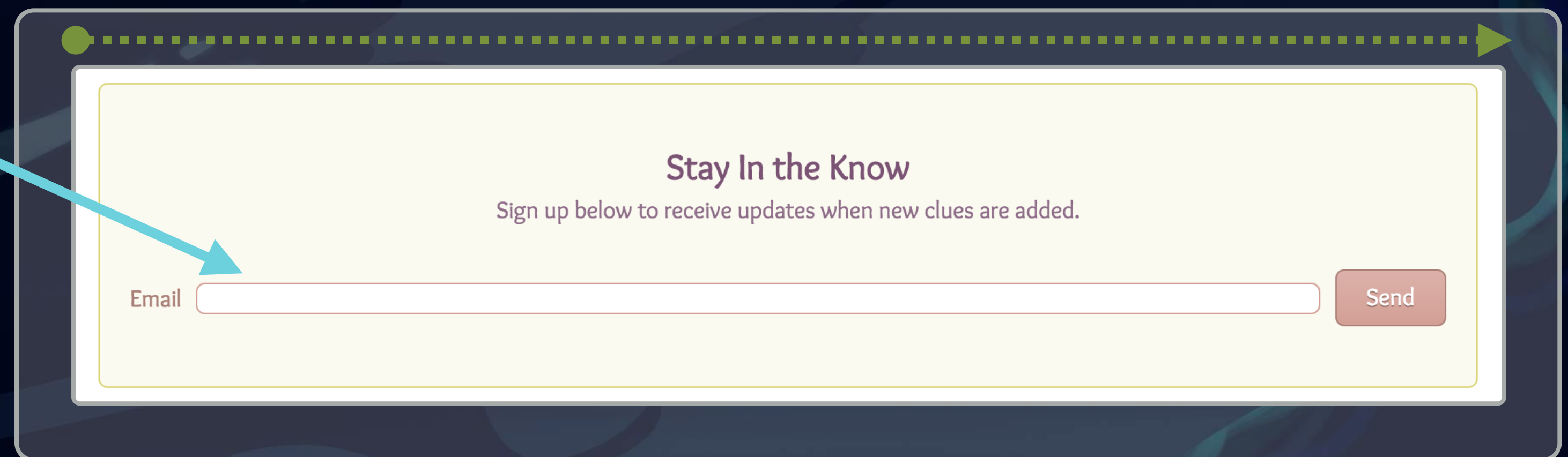
CSS

```
...
.add-input {
  ...
  flex-grow: 1; }
```



A small rectangular form with a light yellow background. It contains the text "Stay In the Know" followed by "Sign up below to receive updates when new clues are added." Below this is an "Email" label, a text input field, and a "Send" button. A blue arrow points from the text "Fills all available space" to the input field.

*Fills all
available
space*



The same form as on the left, but expanded to fill the width of its container. A dashed green line with an arrow at the end indicates the expansion. A blue arrow points from the text "Fills all available space" to the input field.

Using flex-grow for Multiple Items

Assigning a value of **1** to multiple properties will have them all try to fill as much space as possible.

index.html

HTML

```
<div ...>
  <label class="add-label">...
  <input class="add-input">
  <button class="add-button">...
</div>
```

site.css

CSS

```
...
.add-label,
.add-input,
.add-button {
  flex-grow: 1; }

```

Stay In the Know

Sign up below to receive updates when new clues are added.

Email

Send

*Each item divides
the space*

Using flex-grow With Empty Containers

Empty flex containers will divide the space according to the ratio.

index.html

HTML

```
<div class="one">...</div>
<div class="two">...</div>
<div class="three">...</div>
```

site.css

CSS

```
.one,
.three {
  flex-grow: 1; }
.two {
  flex-grow: 2; }
```

1000px

Ratio No Content

.one, 250px

.two, 500px

.three, 250px

Using flex-grow With Same-sized Content

Content alters how the algorithm divides space.

index.html

HTML

```
<div class="one">Width: 274px</div>
<div class="two">Width: 452px</div>
<div class="three">Width: 274px</div>
```

site.css

CSS

```
.one,
.three {
  flex-grow: 1; }
.two {
  flex-grow: 2; }
```

1000px

Ratio With Content

Width: 274px

Width: 452px

Width: 274px

Using flex-grow With Uneven Content

Content with different widths will affect the ratio size.

index.html

HTML

```
<div class="one">...</div>
<div class="two">...</div>
<div class="three">...</div>
```

site.css

CSS

```
.one,
.three {
  flex-grow: 1; }
.two {
  flex-grow: 2; }
```

1000px

UnEven Content

One Width: 279px

Two Width: 433px

Three Width: 288px

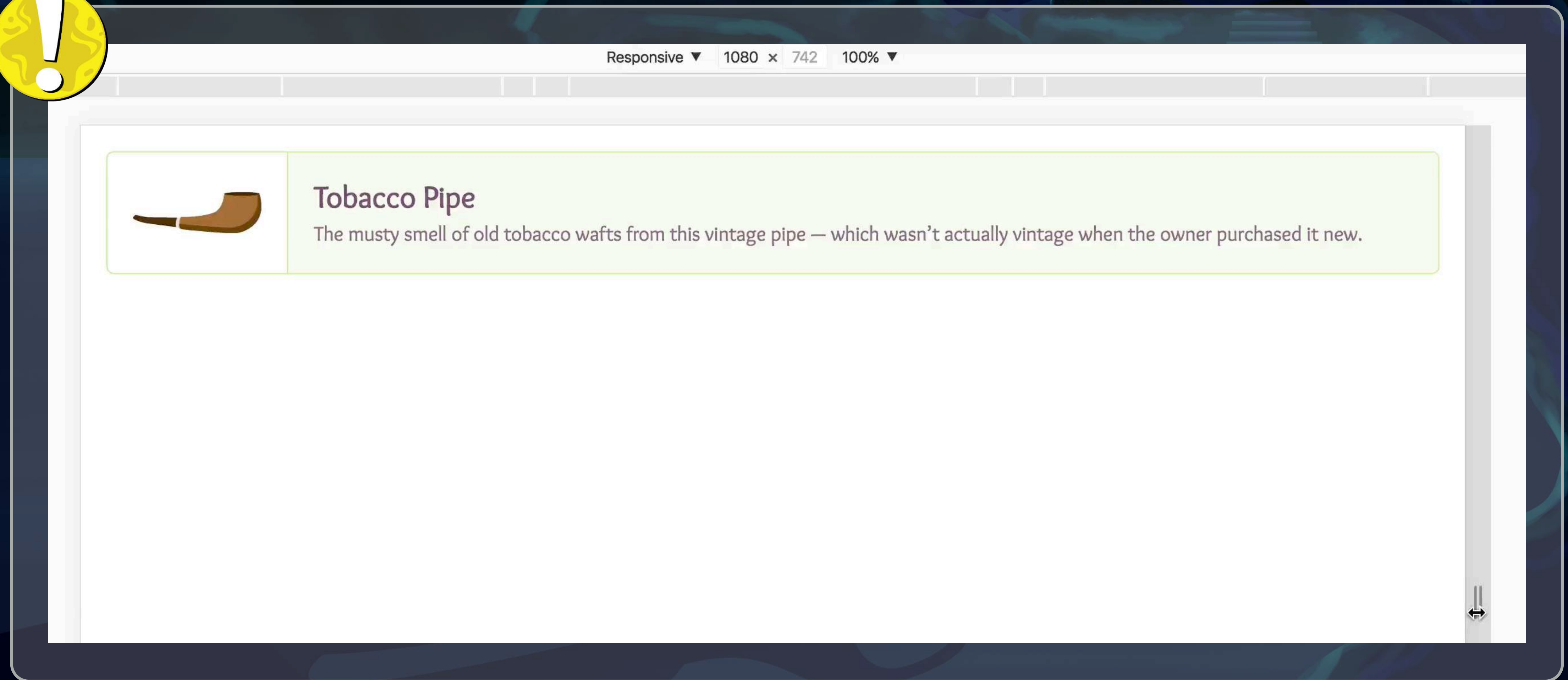
16 characters

16 characters

18 characters

Growing Pains

We want the text item to resize, but not the image.



flex-shrink

Used to specify the "shrink factor" of a flex item. It accepts numbers and the default is 1.

index.html

HTML

```
<article ...>
  <div class="clue-img">...</div>
  <div class="clue-info">...</div>
</article>
```

site.css

CSS

```
...
.clue-img {
  flex-shrink: 0; }
```



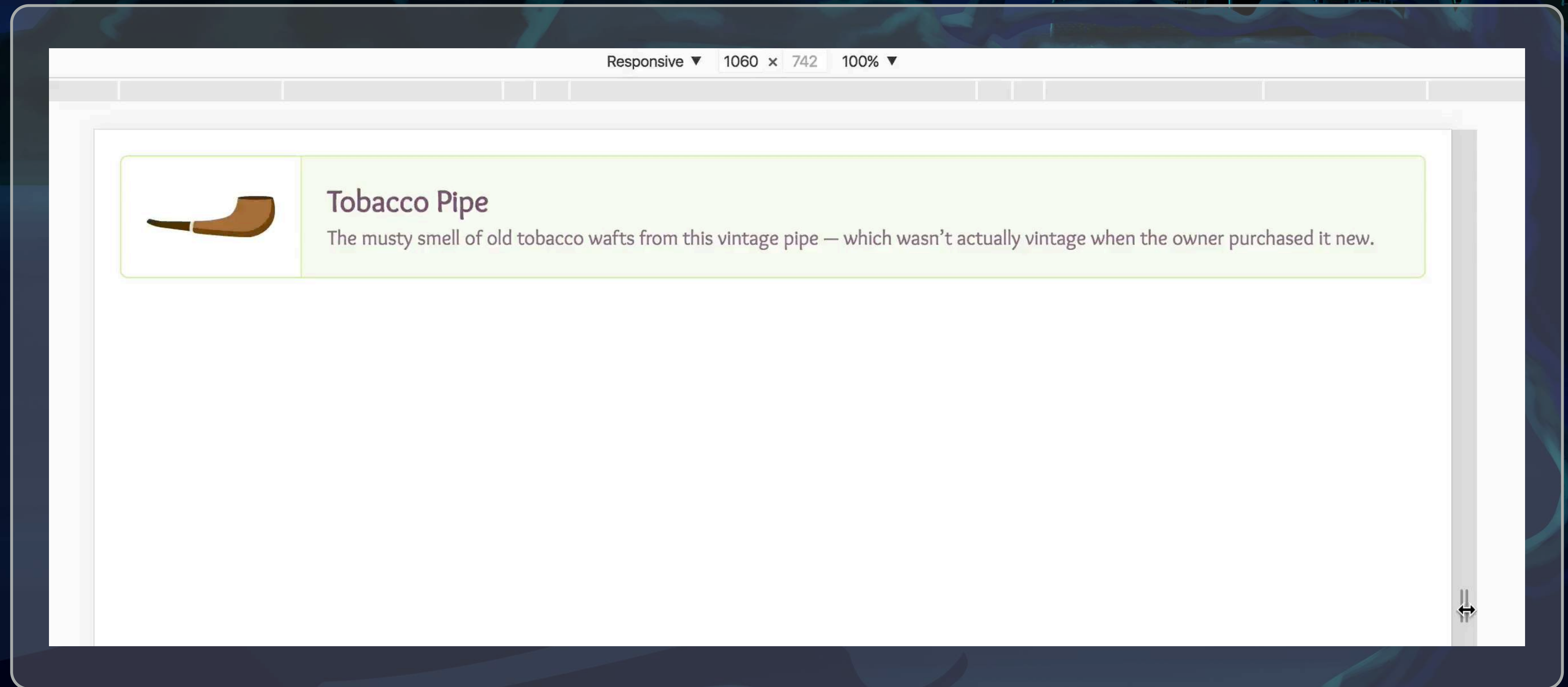
Tobacco Pipe

The musty smell of old tobacco wafts from this vintage pipe — which wasn't actually vintage when the owner purchased it new.

Does not reduce in width

flex-shrink: 0 in Action

The `.clue-img` div remains the same size.



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